SEPT. 1960

System 8

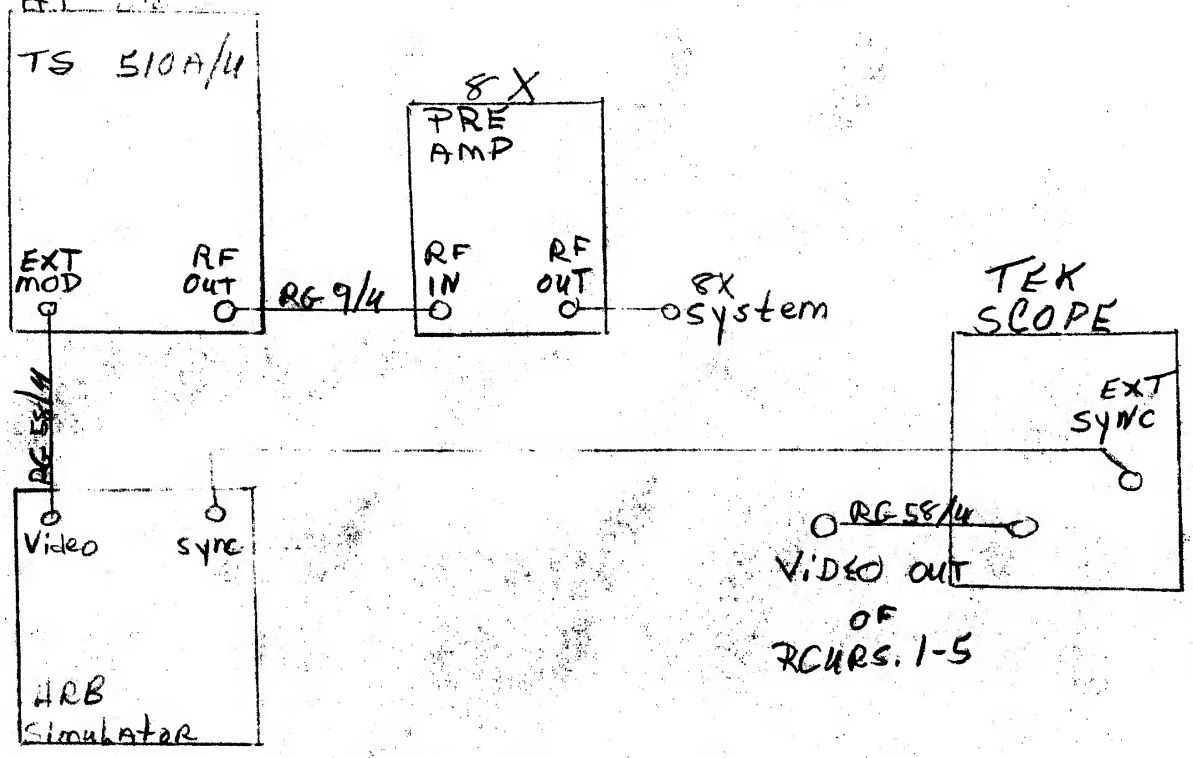
## System 8X Test Tape

| Channel | Record Time of 30 Sec for each Frequency and Level |
|---|---|
| 1 | 66 Mc 70 dbm, 80 dbm, 90 dbm, 100 dbm, 105 dbm |
| 2 | 71 Mc 70 dbm, 80 dbm, 90 dbm, 100 dbm, 105 dbm |
| 3 | 76 Mc 70 dbm, 80 dbm, 90 dbm, 100 dbm, 105 dbm |
| 4 | 66, 71, 76 Mc at all DB Levels |
| 5 | |
| 6 | 66 Mc EXT. Sync |
| 7 | 71 Mc EXT. Sync |
| 8 | 76 MC EXT. Sync |
| 9 | Operator #3 Voice Describing Above Test |
| 10 | Operator #4 Voice and 1000 cycles describing tone above test |
| 11 | Low K Band RCUR Noise |
| 12 | High K Band RCUR Noise |
| 13 | WWVH 5 Mc |
| 14 | WWVH 5 Mc |

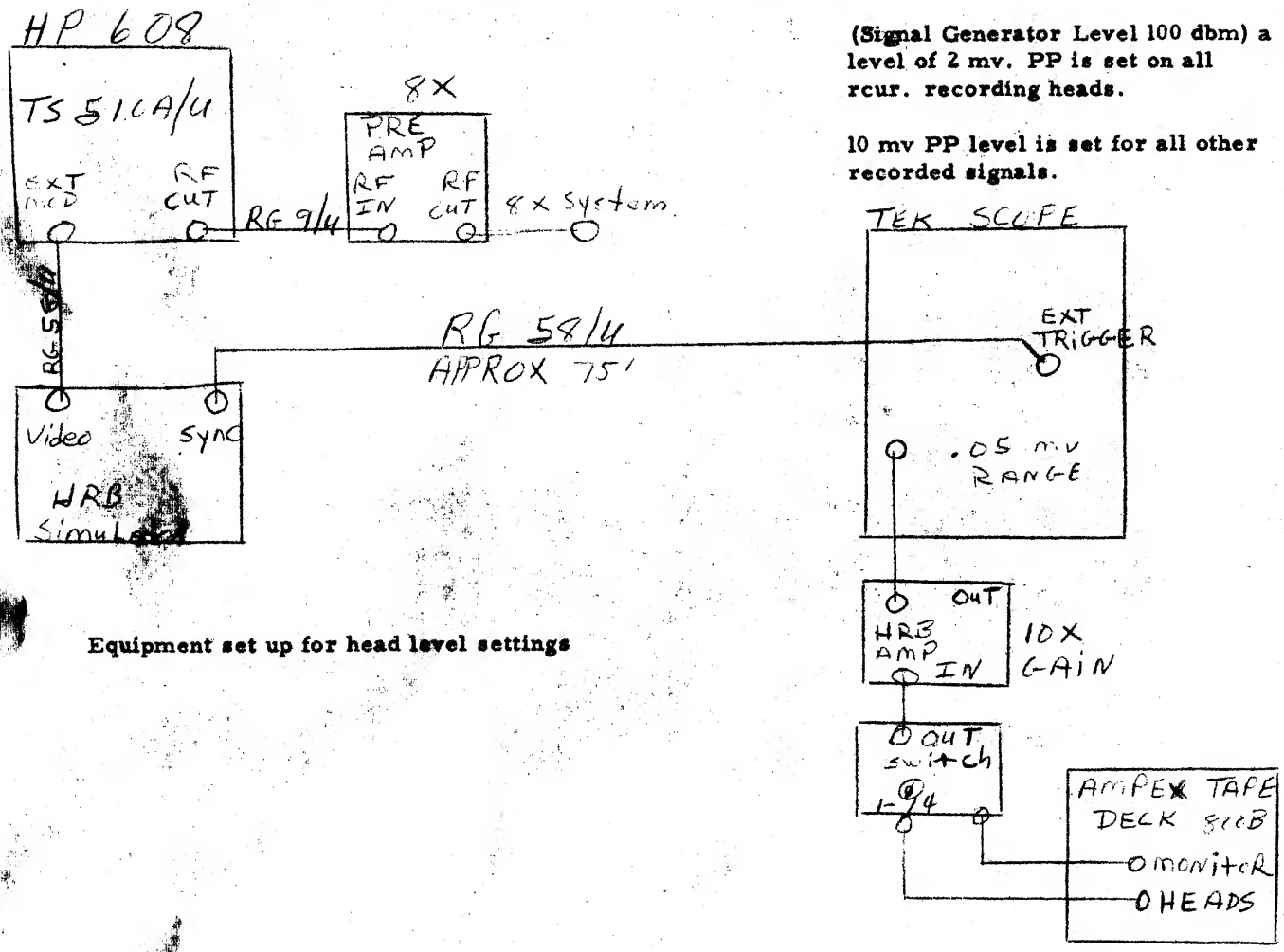
## Test Tape Recording Time

| Channel | |
|---|---|
| 1. | 0 to 2 1/2 minutes |
| 2. | 2 1/2 to 5 minutes |
| 3. | 5 to 7 1/2 minutes |
| 4. | 0 to 7 1/2 minutes |
| 5. | 0 to 7 1/2 minutes |
| 6. | 0 to 2 1/2 minutes |
| 7. | 2 1/2 to 5 minutes |
| 8. | 5 to 7 1/2 minutes |
| 9. | 0 to 7 1/2 minutes |
| 10. | 0 to 7 1/2 minutes |
| 11. | 0 to 7 1/2 minutes |
| 12. | 0 to 7 1/2 minutes |
| 13. | 0 to 7 1/2 minutes |
| 14. | 0 to 7 1/2 minutes |

The test tape is a 1 1/2 mil tape so only 8 minutes of recording time was available. At the 70 dbm level the system was saturated and at the 105 dbm level the lights were fluctuating. This test tape should give an idea of the sensitivity and dynamic range of System 8X.




**Equipment Hookup for Tangential Sensitivity System Check of 8X Equipment and Dynamic Range Check**




**Equipment set up for head level settings**

**(Signal Generator Level 100 dbm) a level of 2 mv. PP is set on all rcur. recording heads.**

**10 mv PP level is set for all other recorded signals.**

## ANALYSING COMMENTS

Channel 1 - 66 Mc/s
- 70 dbm - no good noise?
- 80 dbm - VG
- 90 dbm - VG some amplitude variation
- 100 dbm - fair/poor noisy
- 105 dbm " " "

Channel 2 - 71 Mc/s
- 70 dbm NIL
- 80 dbm NIL
- 90 dbm NIL no noise
- 100 dbm NIL
- 105 dbm NIL

Channel 3 - 76 Mc/s
- 70 dbm VG
- 80 dbm VG
- 90 dbm VG
- 100 dbm No Good
- 105 dbm No Good

Channel 4
- NIL - dead

Channel 5
- 71 Mc/s
- 70 dbm good
- 80 dbm VG - amplitude variation
- 90 dbm fair/good some noise
- 100 dbm No Good
- 105 dbm No Good

Channel 6 - 66 Mc/s - extracted sync
- 70 dbm - NIL
- 80 dbm - NIL
- 90 dbm - NIL
- 100 dbm - NIL
- 105 dbm - NIL

(processed video)

Channel 7 - 71 Mc/s extracted sync ??
70 dbm VG
80 dbm VG
90 dbm VG showing all of signal
100 dbm VG
105 dbm fair/good - noisy

Channel 8 - 76 Mc/s - extracted sync
70 dbm - NIL
80 dbm - NIL
90 dbm - NIL
100 dbm - NIL
105 dbm - NIL

Channel 9 - voice annotations
Some splash over from WWV (weals) very good intermittent

Channel 10
Splash over from Channel 9 - no other voice
1000 NIL

Channel 11 has WWVH on - no other sig

Channel 12 has WWVH

Channel 13 WWVH Very good

Channel 14 WWVH weak

76 Mc/s 80 dbm Channel 13 WWVH NIL
" 14
100 dbm WWVH weak much noise